

<b>Ex. No. 6</b>	<b>JavaScript Styles and Animation</b>
<b>Date of Exercise</b>	06.09.2023

## Aim

To create a javascript styles and animation using html, css and javascript.

## Description

- alignContent - Sets or returns the alignment between the lines inside a flexible container when the items do not use all available space.
- alignItems - Sets or returns the alignment for items inside a flexible container.
- alignSelf - Sets or returns the alignment for selected items inside a flexible container.
- animation - A shorthand property for all the animation properties below, except the animationPlayState property.
- background - Sets or returns all the background properties in one declaration.
- backgroundAttachment - Sets or returns whether a background-image is fixed or scrolls with the page.
- backgroundColor - Sets or returns the background-color of an element.
- backgroundImage - Sets or returns the background-image for an element.
- JavaScript can be used to move a number of DOM elements (<img />, <div> or any other HTML element) around the page according to some sort of pattern determined by a logical equation or function.
- setTimeout(function, duration) – This function calls function after duration milliseconds from now.
- setInterval(function, duration) – This function calls function after every duration milliseconds.
- clearTimeout(setTimeout\_variable) – This function calls clears any timer set by the setTimeout() functions.

## Program

1)

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

  <script src="ex_6_a.js"></script>

  <style>

    div{

      background-color: blue;

      color:white;

      width:300px;

      height:300px;

      border:1px solid red;

      margin:auto;

    }

  </style>

</head>

<body>

  <div id="box">

    Welcome to JS

  </div>

  <br>
```

Select Background-Color

```
<input type="color" onchange="changeBGColor(this.value)"><br><br>
```

Select Text-Color

```
<input type="color" onchange="changeTextColor(this.value)"><br><br>
```

Text Size

```
<input type="number" onchange="changeSize(this.value)" min="0" max="50"
placeholder="20"><br><br>
```

Box width

```
<input type="text" onkeyup="changewidth(this.value)" ><br><br>
```

Box height

```
<input type="text" onkeyup="changeheight(this.value)"><br><br>
```

Border Radius

```
<input type="range" onclick="changeradius(this.value)">
```

```
</body>
```

```
</html>
```

```
function changeBGColor(a){
```

```
    var element = document.getElementById('box');
```

```
    element.style.backgroundColor = a;
```

```
}
```

```
function changeTextColor(b){
```

```
    var element = document.getElementById('box');
```

```
    element.style.color=b;
```

```
}
```

```
function changeSize(b){  
    var element = document.getElementById('box');  
    element.style.fontSize=b+"px";  
}  
  
function changewidth(b){  
    var element = document.getElementById('box');  
    element.style.width=b+"px";  
}  
  
function changeheight(b){  
    var element = document.getElementById('box');  
    element.style.height=b+"px";  
}  
  
function changeradius(b){  
    var element = document.getElementById('box');  
    element.style.borderRadius=b+"%";  
}
```

2)

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Document</title>
```

```
  <script src="ex_6.js"></script>
```

```
<style>
```

```
  #b1{
```

```
    width:1000px;
```

```
    height:250px;
```

```
    margin-top:50px;
```

```
  }
```

```
  .i1{
```

```
    width:200px;
```

```
    height:200px;
```

```
  }
```

```
  #b2{
```

```
    width:75px;
```

```
    height:200px;
```

```
    background-color:blue;
```

```
    float:left;
```

```
    z-index: 3;
```

```
right:100px;

top:19px;

position:absolute;
}

#b3{

width:100px;

height:50px;

background-color:red;

float:left;

z-index: 3;

right:40px;

top:175px;

position:absolute;

}

</style>

</head>

<body onload="init()">

  <div id="b1">

  </div>

  <div id="b2"></div>

  <div id="b3"></div>

  <button class="start" onclick="move()">Start</button>

  <button class="stop" onclick="stop()">Stop</button>

  <button class="reset" onclick="reset()">Reset</button>
```

```
</body>

</html>

car = null
timer = null
danger = null

function init(){
    car = document.getElementById('b1');
    car.style.position='relative';
    car.style.left='2px';
    car.style.top='2px';
}

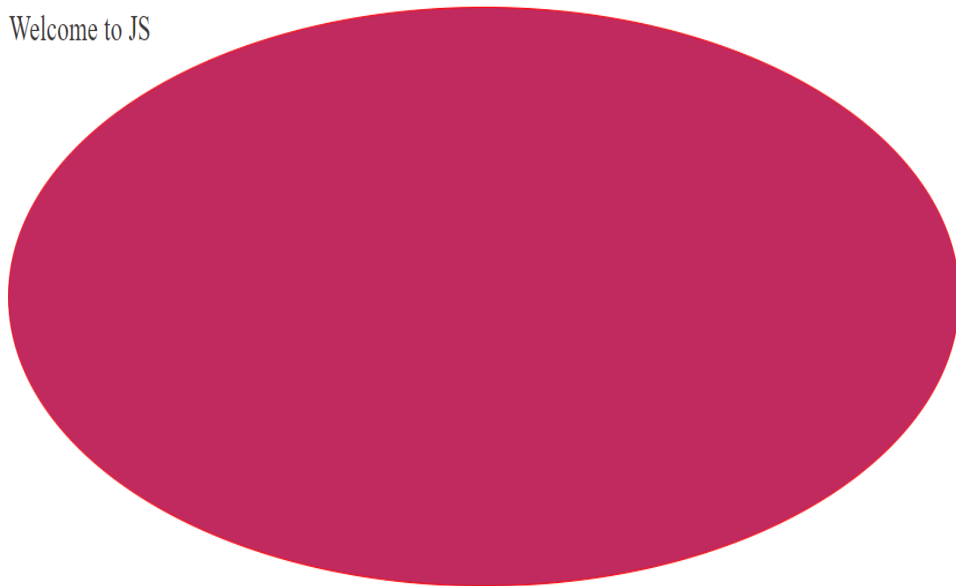
function move(){
    car.style.left = parseInt(car.style.left)+2+"px";
    timer = setTimeout(move,10);
    if(parseInt(car.style.left)>='1000'){
        clearTimeout(timer)
        danger = document.getElementById('b3');
        document.getElementById('b3').innerHTML='Danger';
    }
}


function stop(){
    clearTimeout(timer)
}
```


```
function reset(){  
    car.style.left='2px';  
    danger.style.background = 'none';  
    document.getElementById('b3').innerHTML="";  
}
```

## Output

Welcome to JS




Select Background-Color 

Select Text-Color 

Text Size

Box width

Box height

Border Radius 

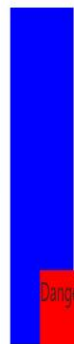




Start

Stop

Reset



Danger

Start

Stop

Reset

## Result

The program is executed successfully and the program output is displayed in the web browser.